

lected at Auburn, Ala., in September by myself. These three specimens are uniform in the above characters. I find no gradation towards them in my entire series of *robustus*, numbering some ninety specimens, some of which are from Alabama.

Macropsis stramineus n. sp.—Female. Length 4 mm. Near *alabamensis* than which it is stouter. It differs as follows:

Bright straw color throughout. Hairs on elytra black, very short and very sparse, almost wanting on median portion. A brown cloud at tip of clavus and more or less numerous small brown marks at apex of corium. Last ventral segment as in *alabamensis*.

Described from three females in the Herbert H. Smith collection, taken at Chapada, Brazil, in October and November.

LIFE HISTORIES OF NORTH AMERICAN GEOMETRIDÆ.—XI.

BY HARRISON G. DYAR, WASHINGTON, D. C.

Gypsochroa hesitata Guen.

Egg. Elliptical, a little flattened above and below, one end larger than the other, but full and well rounded; micropylar (large) end not flattened. Smooth, finely shagreened, the reticulations obsolete, just the faintest trace perceptible in the shell. Not shining, ocher yellow. Size $6 \times .55 \times .5$ mm. Laid singly on spider's webs or other delicate thread on the leaves or branches of its food plant.

Stage I. Head round, bilobed, clypeus moderate, rather flat before; very pale brown, a narrow dark line on posterior edge of checks; ocelli and mouth dark; not shining; width .4 mm. Body not very slender, cylindrical, smooth, normal, dull greenish, sordid dark and opaque, no definite lines, but numerous longitudinal fine paler streaks, somewhat confused. Feet pale; tubercles small, brown; setae black with slightly swollen tips; no subprimaries; tubercle iii superstigmatal anterior, iv post stigmatal, a trifle above the whitish tracheal line, v well anterior, vii with separated hairs: on thorax ia, iia, iv and vi visible.

Stage II. Head rounded, flattened before, held out flat, mouth projecting, antennae distinct; sordid brown, speckled with darker, a faint, grayish V-shaped shade bordering the clypeus; width .7 mm. Body not very slender; legless segments elongated. Green, the ends, joints 2 to 5 and 10 to 13 shaded with brown, anteriorly darkly shaded especially subdorsally, posteriorly lighter, faintly longitudinally lined, but without distinct bands. Feet pale; tubercles obsolete, setae fine short and pale. Shields concolorous and obscure.

Stage III. Head round, flattened before, not bilobed and free from joint 2; whitish, densely mottled with pale brown, more sparsely about the clypeus; ocelli black; width 1.2 mm. Body moderate, cylindrical, uniform, translucent whitish green, green from the food, with irregular longitudinal rows of small white specks; at the extremities faintly tinged with brown and the specks become dark. Tracheal line visible; spiracles narrowly black rimmed; tubercles small, white; setae very short, pale.

Stage IV. Head rounded, very slightly bilobed, whitish green, thickly mottled with

spots of dull olive green; antennae rather long, last joint salmon color; width 2 mm. Body cylindrical, normal, anal plate large, slightly pointed; no cervical shield, all concolorous. Green, mottled with irregular longitudinal lines and spots of more opaque yellowish green and a few brown dots and specks; tubercles white, small. Spiracles white, narrowly black rimmed. A group of dorsal black specks between tubercles i and ii on the dorsal line on joints 4 to 10, heaviest on 9 and 10, black spots on subventral fold posteriorly, heaviest on 9 and 10. Feet green, brown speckled. Setae short, pale.

Beneath as above, all uniformly colored without distinct lines. Next day after moulting turned all dark brown, head and all alike, resembling bark, mottled with greenish brown and black crinkled lines; tubercles white, the black patches showing as darker shades.

Entered ground to pupate. Imago in twelve days. Food plant *Pisonia aculeata* L., only the young leaves, the old leaves being as inedible to the larvae, especially when young, as leaves of any other plant. Larvae from Palm Beach and Key West, Florida.

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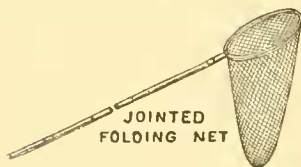
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